

Title (en)
Polysiloxane based dental materials

Title (de)
Dentalmaterialien auf der Basis von Polysiloxanen

Title (fr)
Matériaux dentaires à base de polysiloxane

Publication
EP 1022012 B1 20051123 (DE)

Application
EP 00250006 A 20000111

Priority
DE 19903177 A 19990121

Abstract (en)
[origin: EP1022012A2] Dental material contains polysiloxane(s) based on silane(s) (I), which has an alkyl- or acyl-aminoalkyl group with 1-6 (alkyl)acryloyloxy substituents, and optionally other silicon, aluminum, zirconium, titanium, boron, tin, vanadium and/or phosphorus compound(s) capable of hydrolytic condensation. Dental material contains polysiloxane(s) based on silane(s) of formula (I), which has an alkyl- or acyl-aminoalkyl group with 1-6 (alkyl)acryloyloxy substituents, and optionally other silicon, aluminum, zirconium, titanium, boron, tin, vanadium and/or phosphorus compound(s) capable of hydrolytic condensation; X = halogen, hydroxyl (OH), alkoxy and/or acyloxy; n = 1-3; R<1> = alk(en)yl, aryl, alkylaryl or arylalkyl; R<2> = alkylene; R<3> = a linear, branched or cyclic, saturated or unsaturated, aromatic aliphatic organic group with 2-40 carbon (C) atoms, optionally 1-6 hetero-atoms and p substituents; R<6> = a linear, branched or cyclic 1-20 C organic group with q substituents or is absent; p, q = 1-6; Y = -NR<4>-, N or -(C=O)-NH-; R<4> = alkyl or aryl; Z = oxygen (O), sulfur (S), -(C=O)-O-, -(C=O)-NH- or -O-(C=O)-NH- or is absent; W = CH₂=CR<5>-(C=O)-O-; R<5> = hydrogen (H) or alkyl; m = 2 if Y = N; and m = 1 if Y = NR<4>- or -(C=O)-NH-.

IPC 1-7
A61K 6/093

IPC 8 full level
A61K 6/896 (2020.01); **C08F 30/08** (2006.01)

CPC (source: EP)
A61K 6/30 (2020.01); **A61K 6/887** (2020.01); **A61K 6/896** (2020.01)

C-Set (source: EP)
1. **A61K 6/896 + C08L 83/12**
2. **A61K 6/30 + C08L 51/085**
3. **A61K 6/30 + C08L 83/12**
4. **A61K 6/887 + C08L 51/085**

Cited by
CN111032747A; EP1878760A3; EP1914260A1; US7101942B2; US8076441B2; US7264882B2; EP1878760A2; WO0108639A1; WO2006111373A1; WO0211681A1; US7041709B2; US7932414B2; WO2005040249A1; WO03070198A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1022012 A2 20000726; EP 1022012 A3 20040602; EP 1022012 B1 20051123; AT E310490 T1 20051215; CA 2296227 A1 20000721; CA 2296227 C 20030617; DE 19903177 A1 20000727; DE 19903177 C2 20010726; DE 19903177 C5 20100916; DE 50011664 D1 20051229; JP 2000212018 A 20000802

DOCDB simple family (application)
EP 00250006 A 20000111; AT 00250006 T 20000111; CA 2296227 A 20000119; DE 19903177 A 19990121; DE 50011664 T 20000111; JP 2000011634 A 20000120